

# WATER QUALITY M E M O R A N D U M

Utah Coal Regulatory Program

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January 30, 2004

TO: Internal File

THRU: Daron R. Haddock, Permit Supervisor

FROM: Dana Dean, P.E., Senior Reclamation Hydrologist

RE: 2003 Fourth Quarter Water Monitoring, Plateau Mining Corporation, Willow Creek Mine, C/007/0038-WQ03-4, Task ID #1827

- 1. Was data submitted for all of the MRP required sites?** YES ☐ NO ☒  
*Identify sites not monitored and reason why, if known:*

The Permittee reported "No Access" at B3N stating that it was ice-covered and there was no hole in the vicinity to sample through.

- 2. On what date does the MRP require a five-year resampling of baseline water data.**  
See Technical Directive 004 for baseline resampling requirements. Consider the five-year baseline resubmittal when responding to question one above. Indicate if the MRP does not have such a requirement.

**Resampling due date**

The MRP does not contain a commitment to resample for baseline parameters.

- 3. Were all required parameters reported for each site?** YES ☒ NO ☐  
*Comments, including identity of monitoring site:*

The Permittee had to sample through ice, so they reported flows as 0.

**4. Were irregularities found in the data?**

YES ☒ NO ☐

*Comments, including identity of monitoring site:*

Site B151 had two parameters outside of two standard deviations from the mean. They were:

PARAMETER	VALUE	DEVIATIONS FROM MEAN	MEAN
Dissolved Calcium	81.8 mg/l	3.06	52.02 mg/l
Total Hardness	432 mg/l	2.29	301.00 mg/l

The Dissolved Calcium reading of 81.8 mg/l is the highest ever reported at this site but does not change the quality of the water, since it has always been "hard" to "very hard" with hardness values from 145 to 432 (hard = 120-180 mg/l, very hard = >180 mg/l). There is no water quality standard for calcium.

**5. Were DMR forms submitted for all required sites?**

1<sup>st</sup> month, YES ☒ NO ☐  
2<sup>nd</sup> month, YES ☒ NO ☐  
3<sup>rd</sup> month, YES ☒ NO ☐

All DMR's reported "No Flow".

**6. Were all required DMR parameters reported?**

YES ☒ NO ☐

*Comments, including identity of monitoring site:*

All DMR's reported "No Flow".

**7. Were irregularities found in the DMR data?**

YES ☒ NO ☐

*Comments, including identity of monitoring site:*

All DMR's reported "No Flow".

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**8. Based on your review, what further actions, if any, do you recommend?**

The Inspector should follow up on the "No Access" report at B3N.

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